



L2: Entry 1 of 5

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TITLE: Nucleotide sequences coding for the thrE gene and process for the enzymatic production of L-threonine using coryneform bacteria

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US-CL-CURRENT: 536/23.2; 435/115, 435/193, 435/252.32, 435/320.1

CLAIMS:

What is claimed is:

- 1. An isolated DNA molecule comprising a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of either SEQ ID NO:2 or SEQ ID NO:4.
- 2. The isolated DNA molecule of claim 1, wherein said polypeptide consists of the amino acid sequence of SEQ ID NO:2.
- 3. The isolated DNA molecule of claim 1, wherein said polypeptide consists of the amino acid sequence of SEQ ID NO:4.
- 4. The DNA molecule of claim 1, wherein said DNA consists of a nucleotide sequence encoding the polypeptide of SEQ ID NO:2.
- 5. The DNA molecule of claim 1, wherein said DNA consists of a nucleotide sequence encoding the polypeptide of SEQ ID NO:4.
- 6. The isolated DNA of any one of claims 1-3, wherein said DNA is replicable in coryneform microorganisms.
- 7. A coryneform microorganism transformed with the DNA of any one of claims 1-5.
- 8. Corynebacterium glutamicum DM368-2 pZ1thrE, filed under accession number DSM 12840.

- 9. The isolated DNA molecule of claim 1, wherein said DNA molecule comprises the nucleotide sequence of either SEQ ID NO:1 or SEQ ID NO:3 and wherein said nucleotide sequence optionally has one or more functionally neutral sense mutations.
- 10. The isolated DNA molecule of claim 9, wherein said DNA molecule consists of the nucleotide sequence of SEQ ID NO:1 and optionally contains one or more functionally neutral sense mutations.
- 11. The isolated DNA molecule of claim 9, wherein said DNA molecule consists of the nucleotide sequence of SEQ ID NO:3 and optionally contains one or more functionally neutral sense mutations.